Slovakia Youth Survey

Slovakia Youth Survey

- Landlocked country.
- High income advanced economy with a high human development index and standard of living.
- Participants were citizens of Bratislava, capital of Slovakia.
- The survey was undertaken in 2013.
- Citizens of Slovakia enjoy a comprehensive social security system, universal healthcare and one of the world’s longest parental leaves.

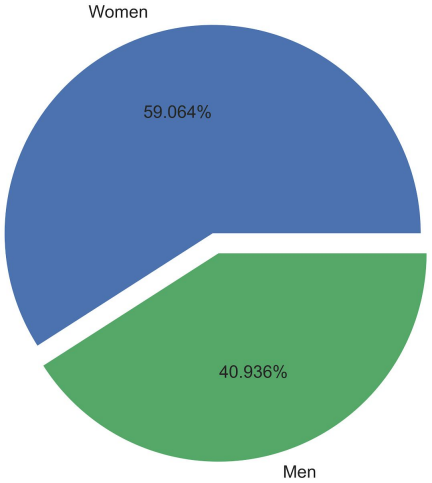
Slovakia

GDP (PPP)	2019 estimate
• Total	$203.244 billion[3] (68th)
• Per capita	$37,268[3] (38th)
GDP (nominal)	2019 estimate
• Total	$112.333 billion[3] (61st)
• Per capita	$20,598[3] (41st)
Gini (2017)	▼23.2[4] low · 8th
HDI (2017)	▲0.855[5] very high · 38th

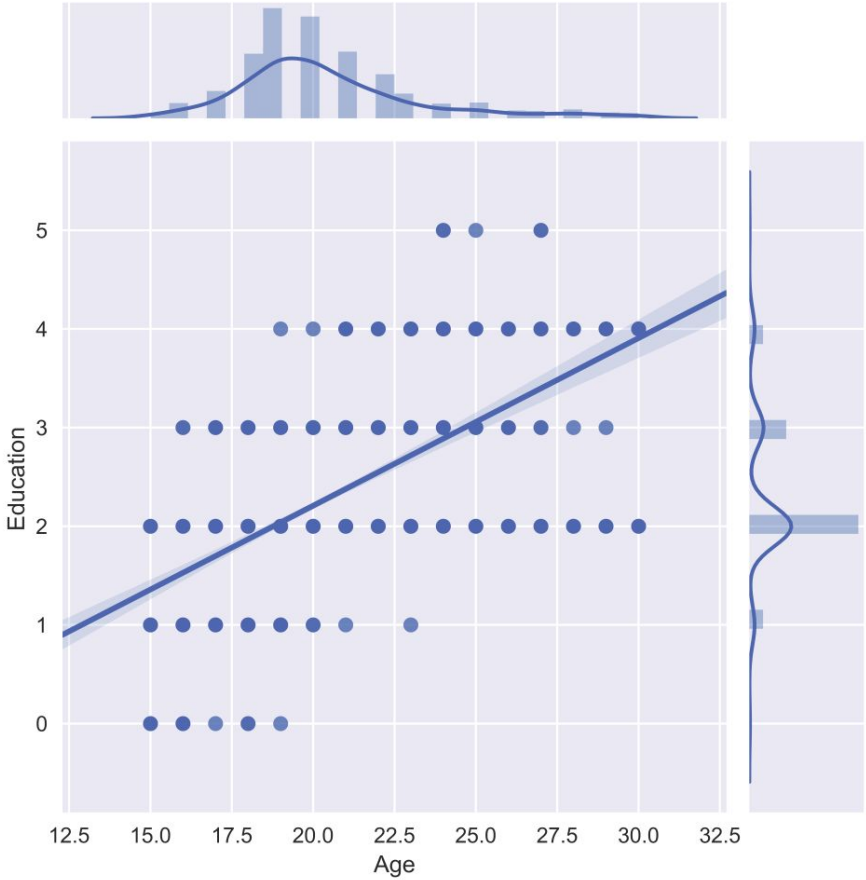
India

GDP (PPP)	2018 estimate
• Total	$10.505 trillion[16] (3rd)
• Per capita	$7,873[16] (116th)
GDP (nominal)	2018 estimate
• Total	$2,716 trillion[16] (6th)
• Per capita	$2,036[16] (133rd)
Gini (2013)	33.9[17] medium · 79th
HDI (2017)	▲0.640[18] medium · 130th

Let's try and learn something about our surveyed demographic.

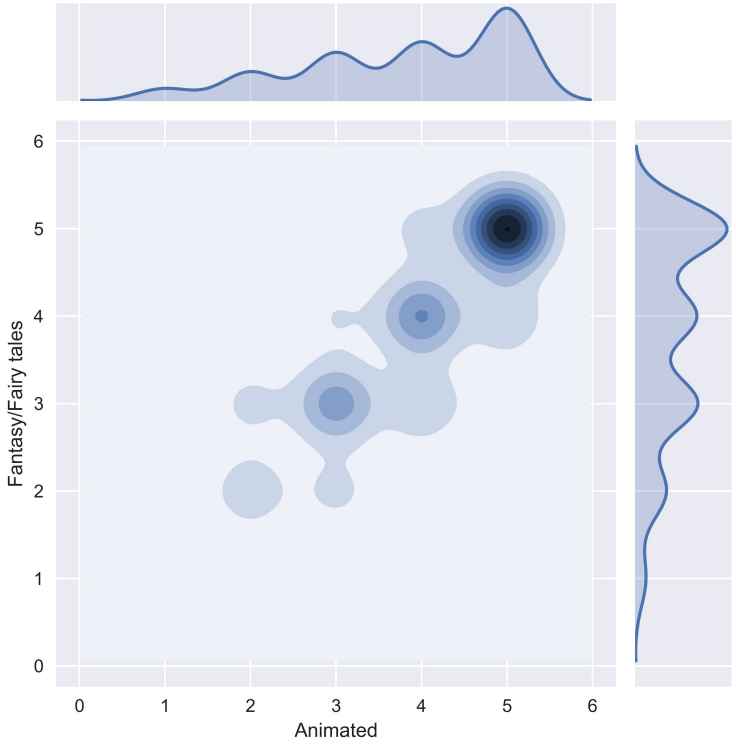


Marginal distribution



Let’s start with some basic Correlation Analysis.

Marginal distribution

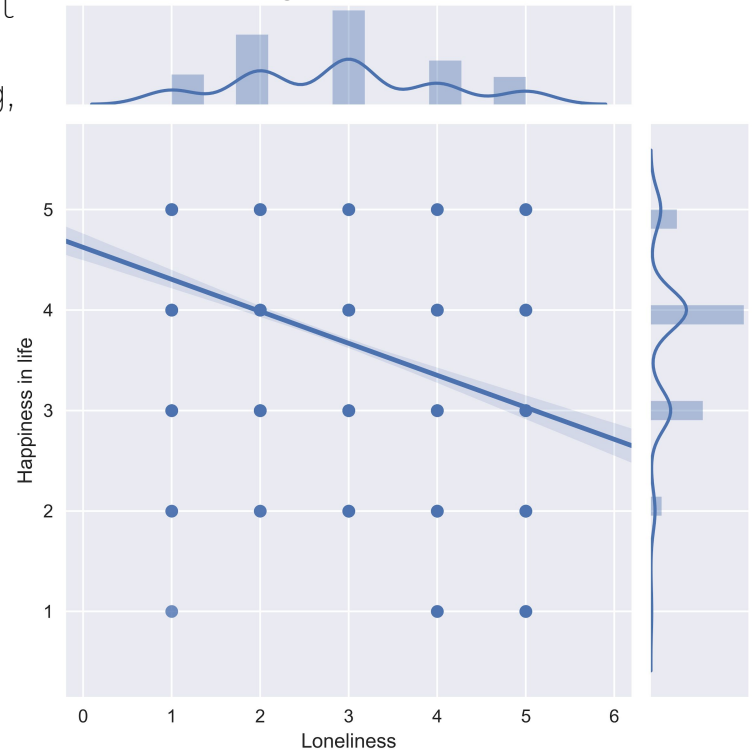


Positively Correlated

We aren't learning anything, that we don't already know!

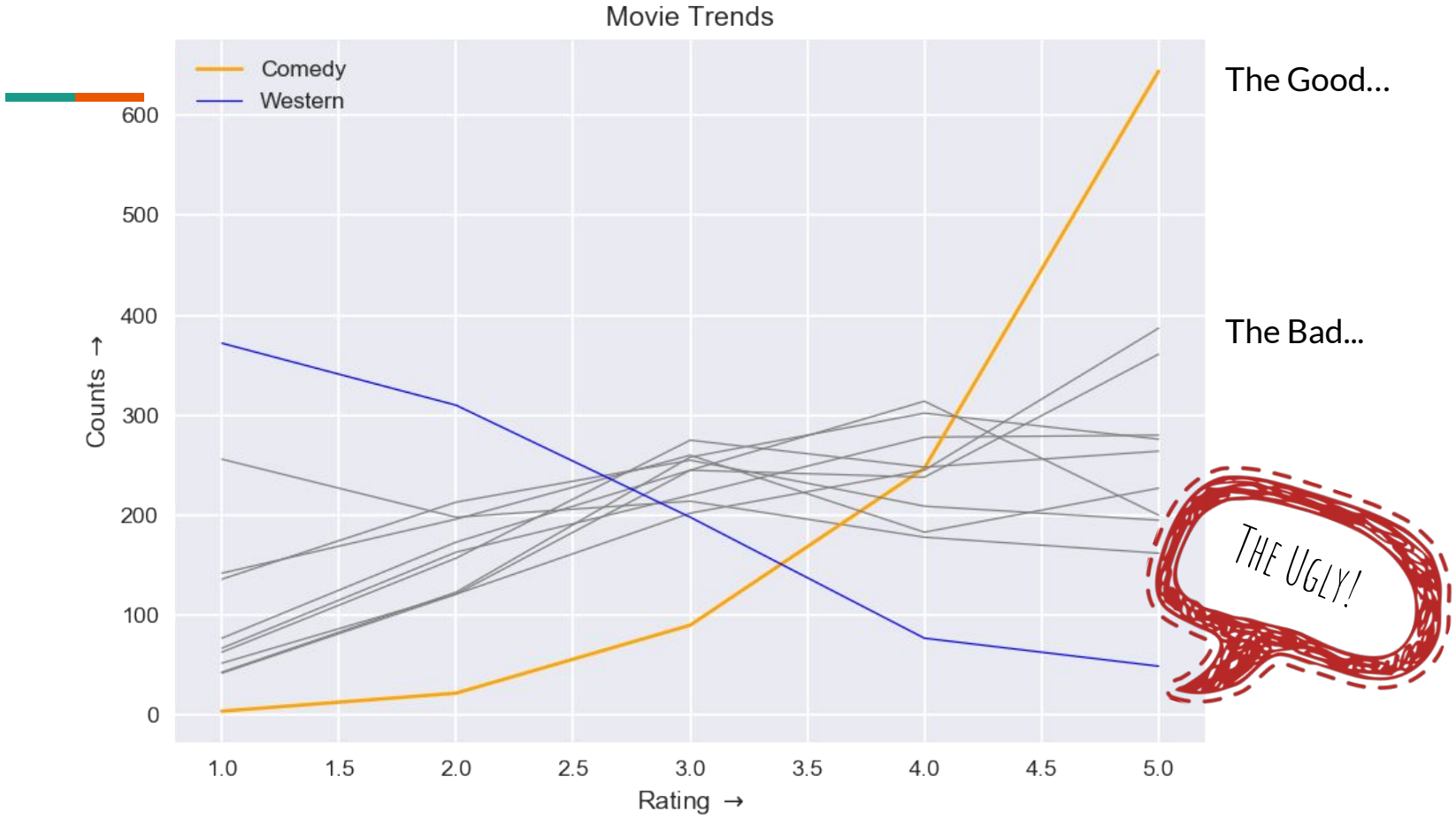
So let's move on shall we?

Marginal distribution

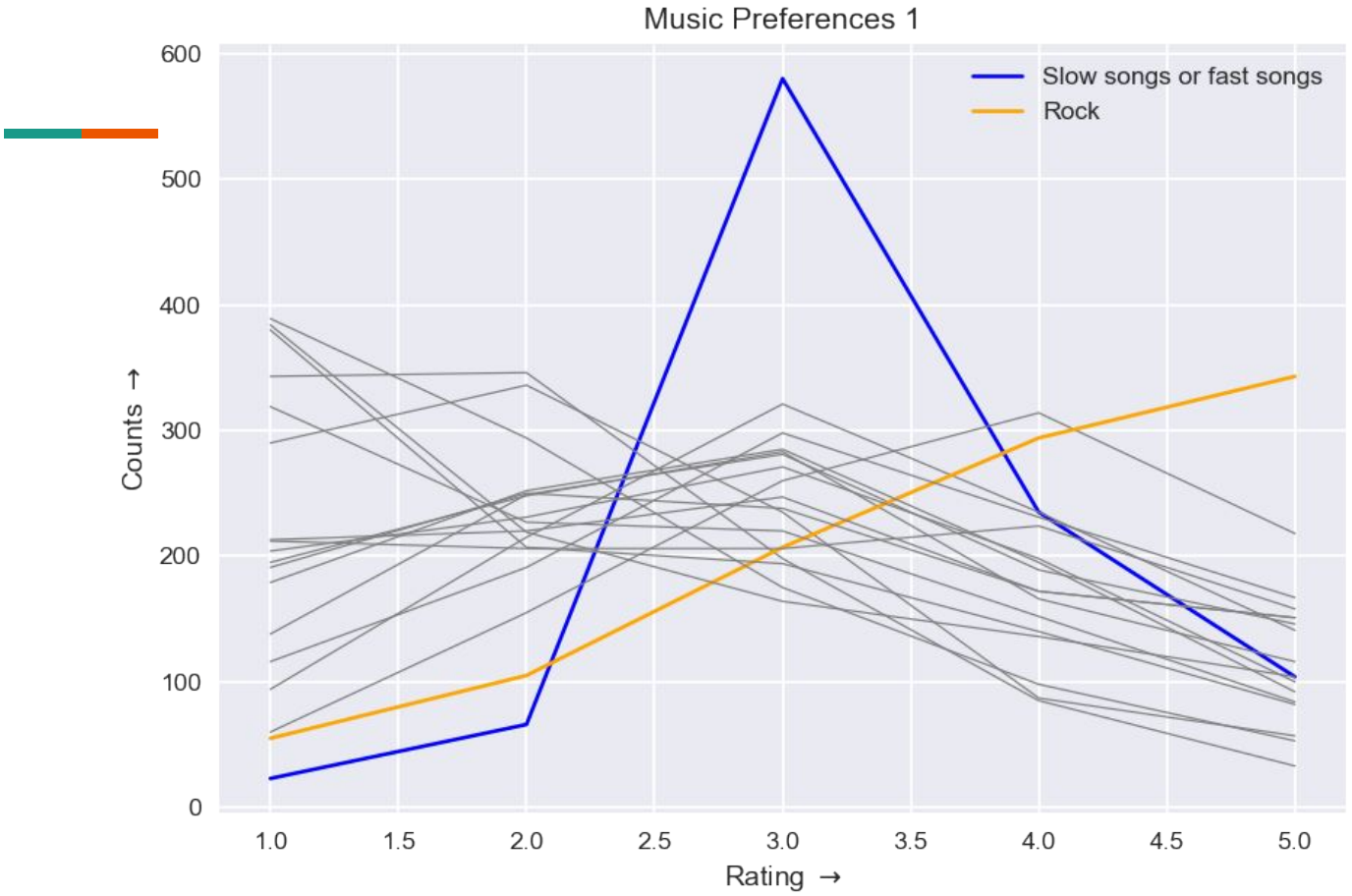


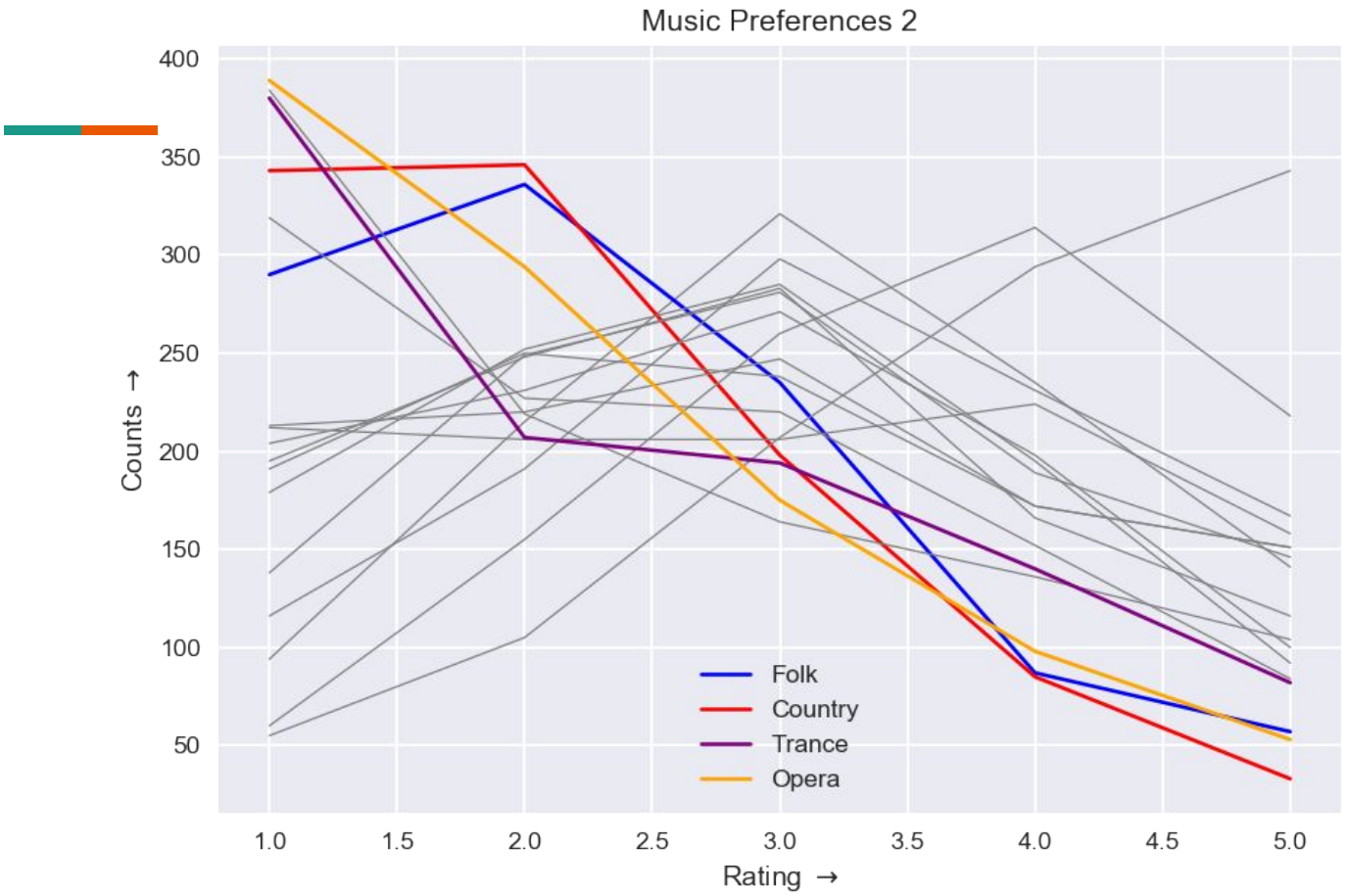
Negatively Correlated

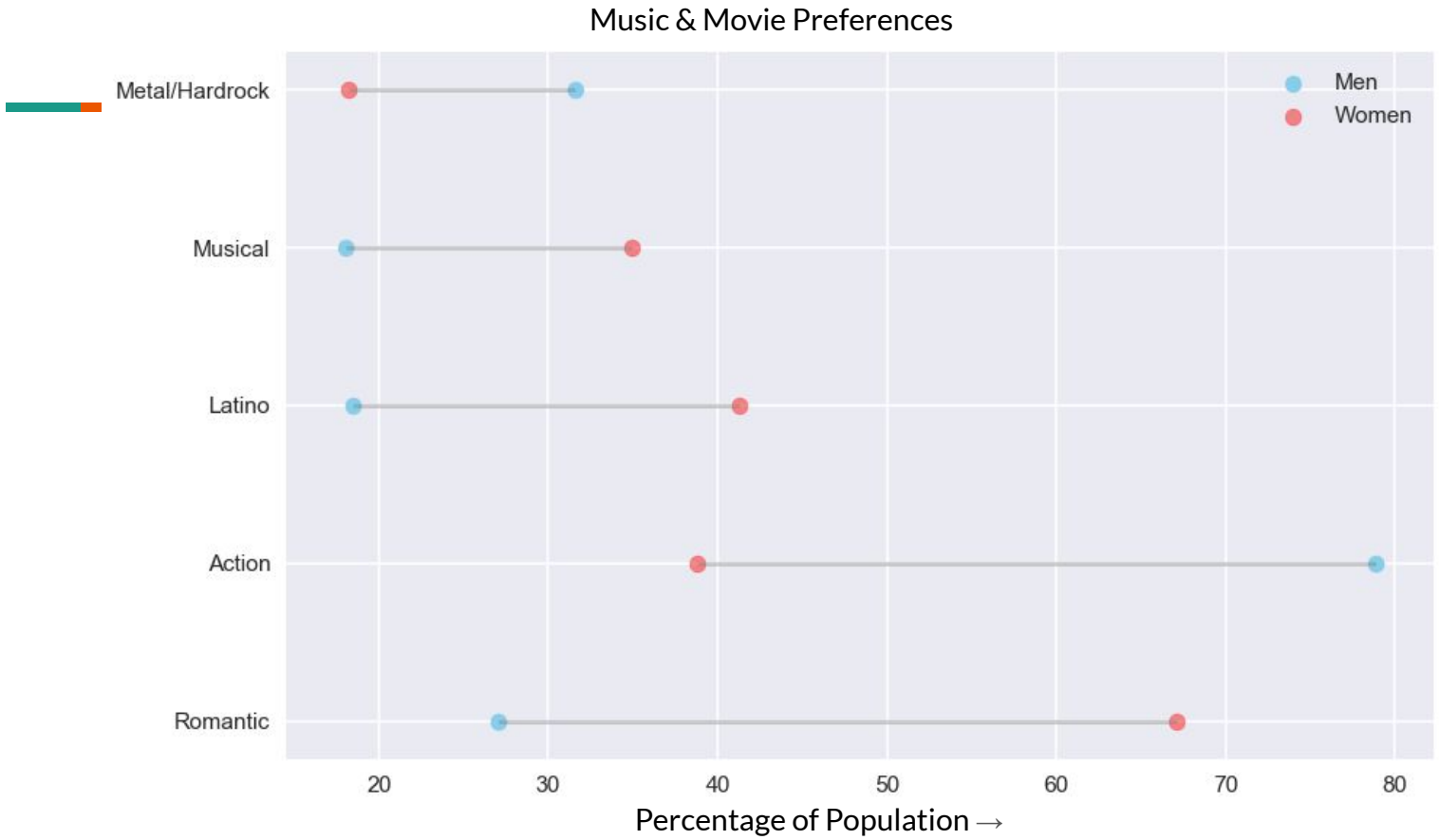
Is Western even a thing?!


Movie Trends
Comedy
Western
600
500
400
300
200
100
0
Counts →
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →
The Good…
The Bad...
THE UGLY!

What about music ?
Do they like McCartney or do they prefer Britney ?

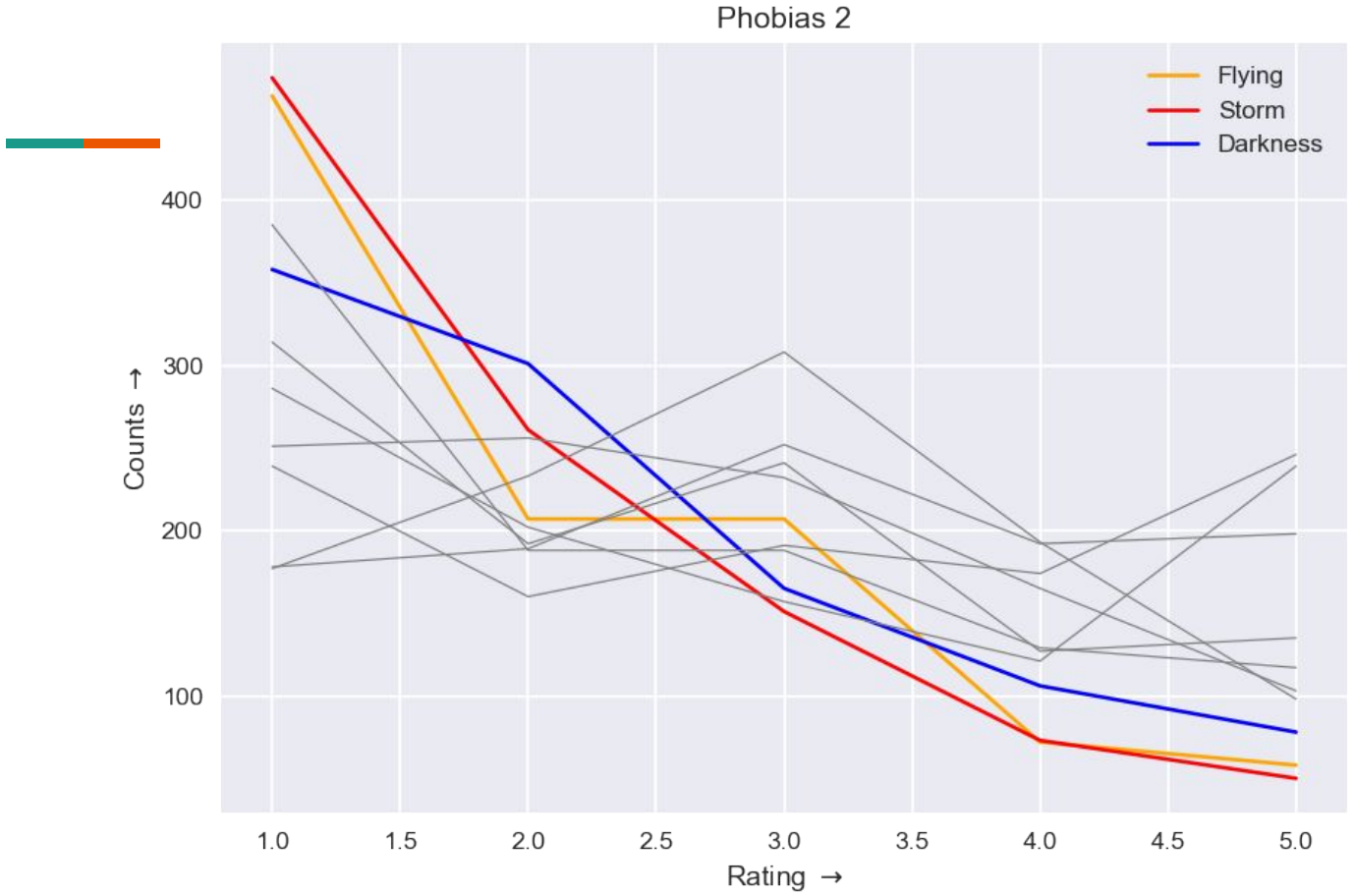

Music Preferences 1
Slow songs or fast songs
Rock
Counts →
Rating →
0
100
200
300
400
500
600
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

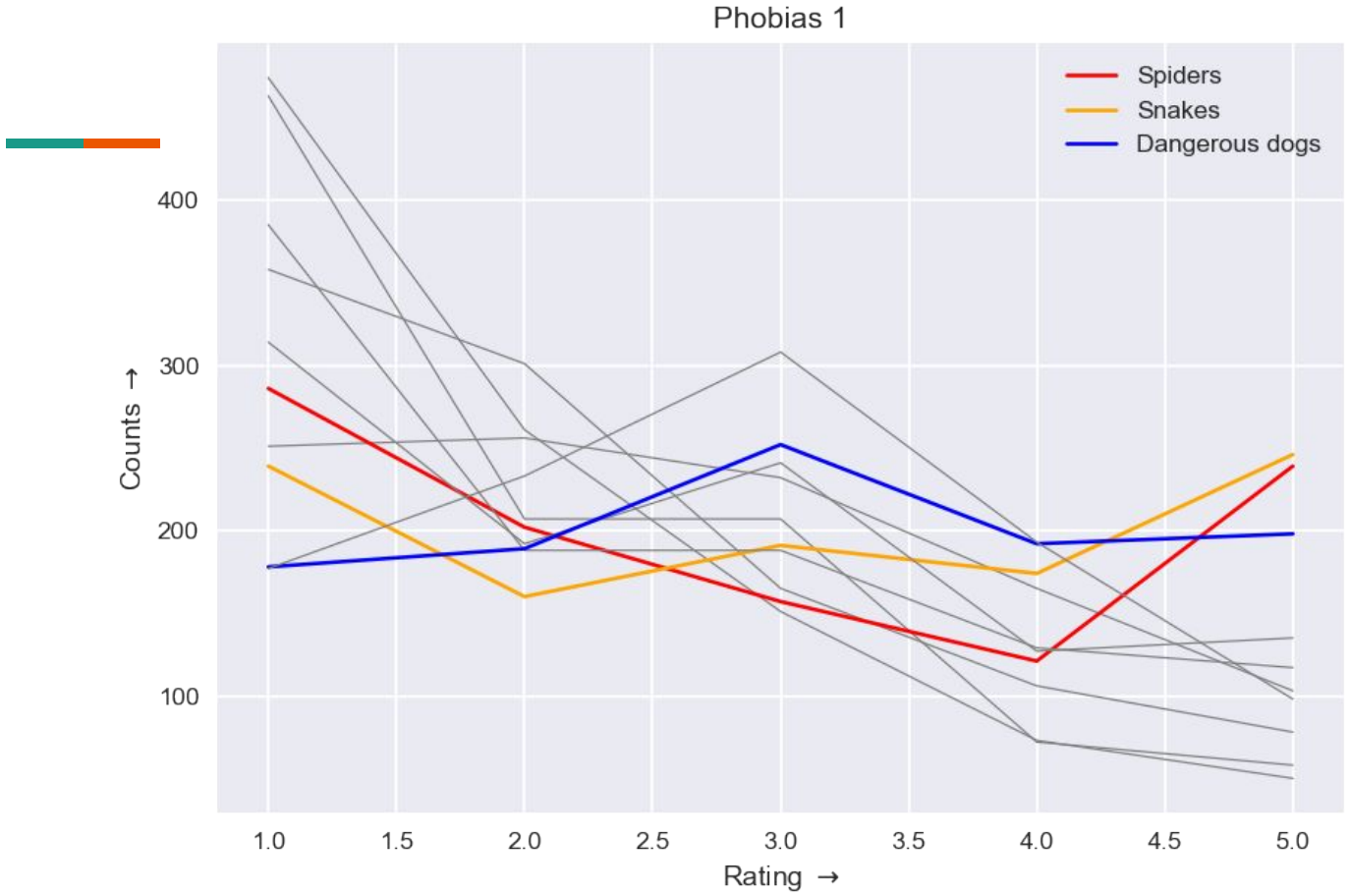

Music Preferences 2
Counts →
Rating →
400
350
300
250
200
150
100
50
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Folk
Country
Trance
Opera


Music & Movie Preferences
Metal/Hardrock
Musical
Latino
Action
Romantic
Men
Women
20
30
40
50
60
70
80
Percentage of Population →

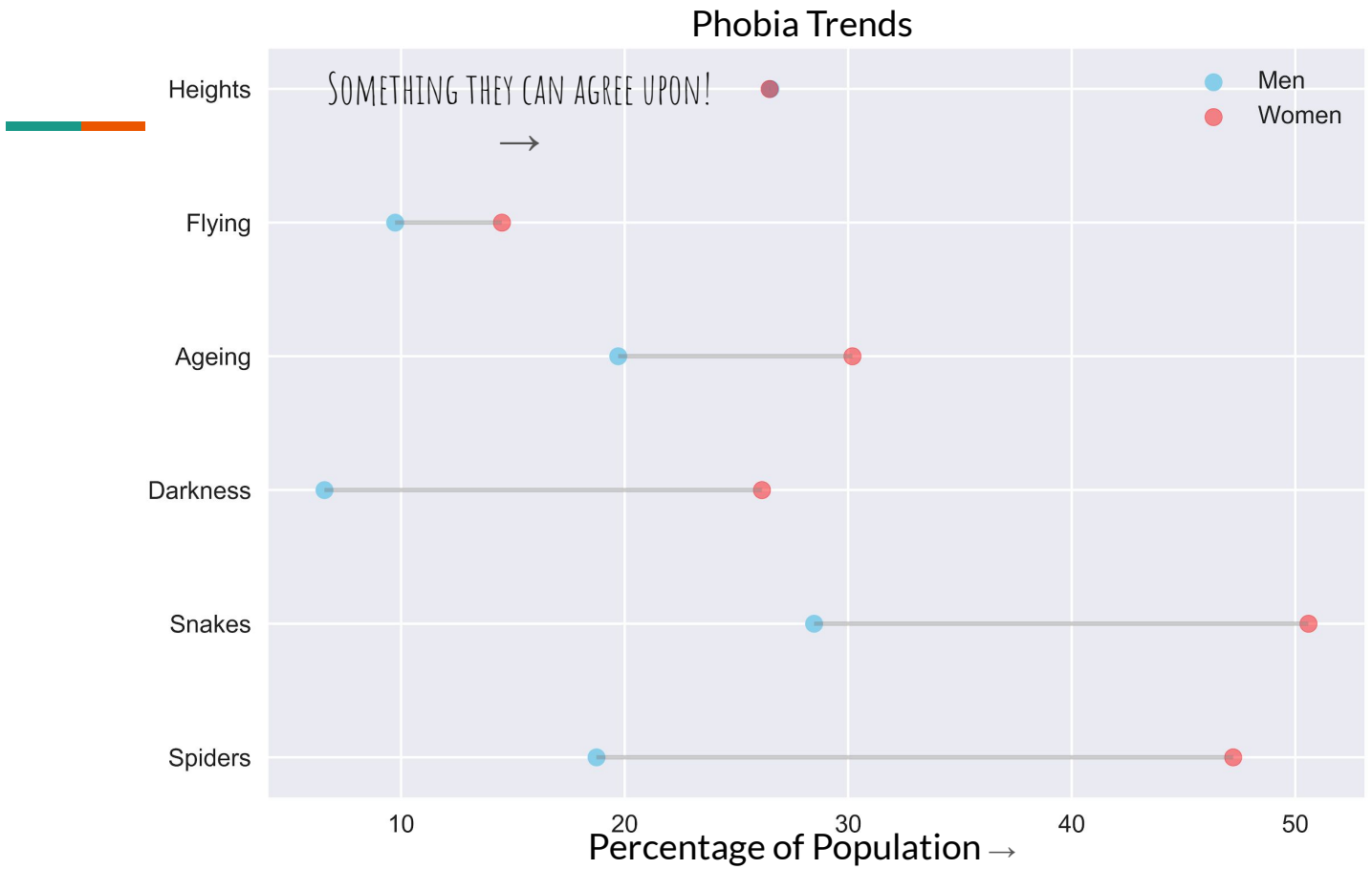
Now let’s do some good-ol’ fashioned Hypothesis Testing!

What about fear, what sends shivers down their spine ?


Phobias 2
Flying
Storm
Darkness
400
300
200
100
Counts →
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →


Phobias 1
Spiders
Snakes
Dangerous dogs
Counts →
400
300
200
100
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →

Is the stereotype really true,
Are women really afraid of everything more than men???

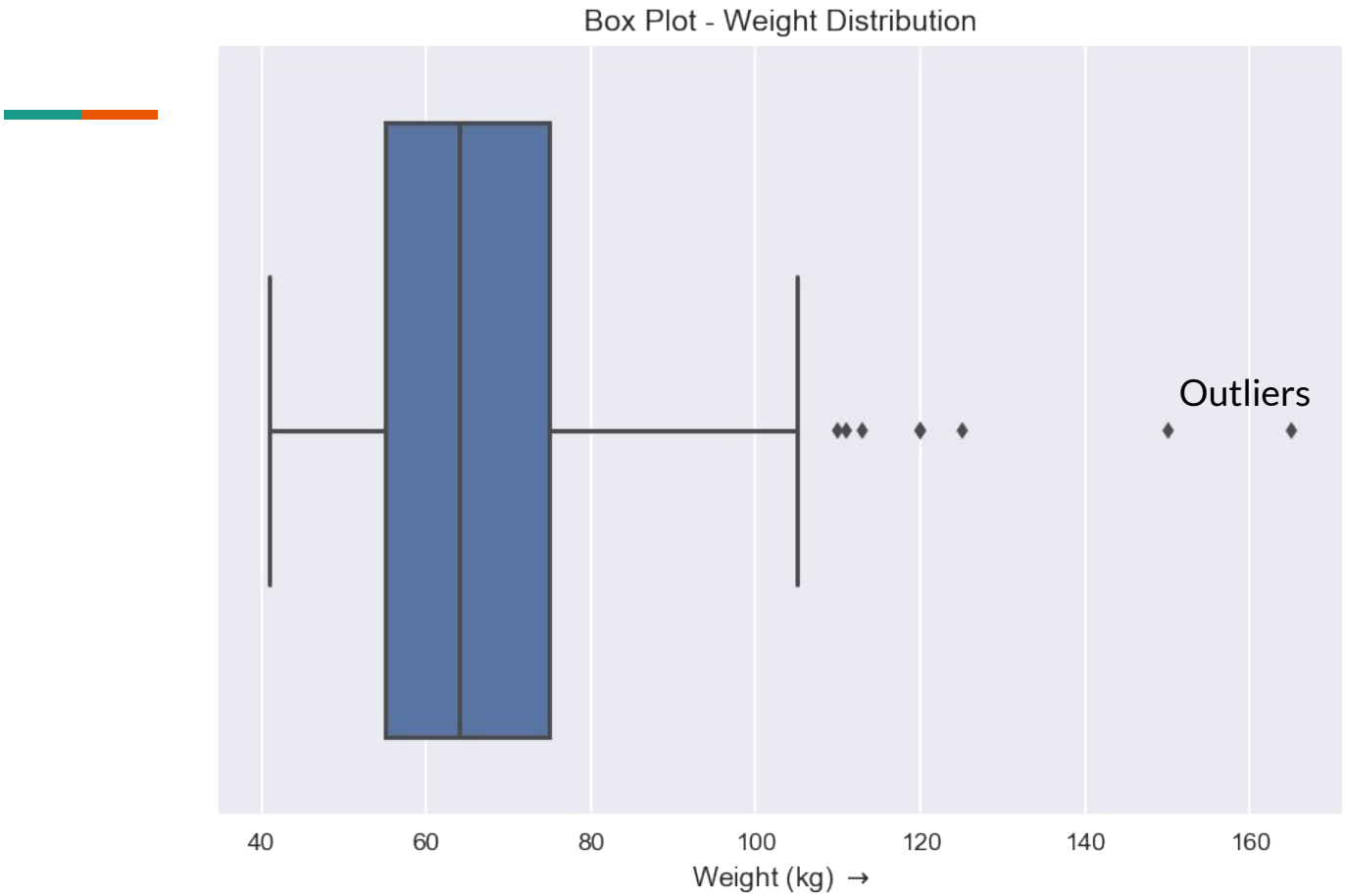

Phobia Trends
Heights
Flying
Ageing
Darkness
Snakes
Spiders
SOMETHING THEY CAN AGREE UPON!
Men
Women
10
20
30
40
50
Percentage of Population →

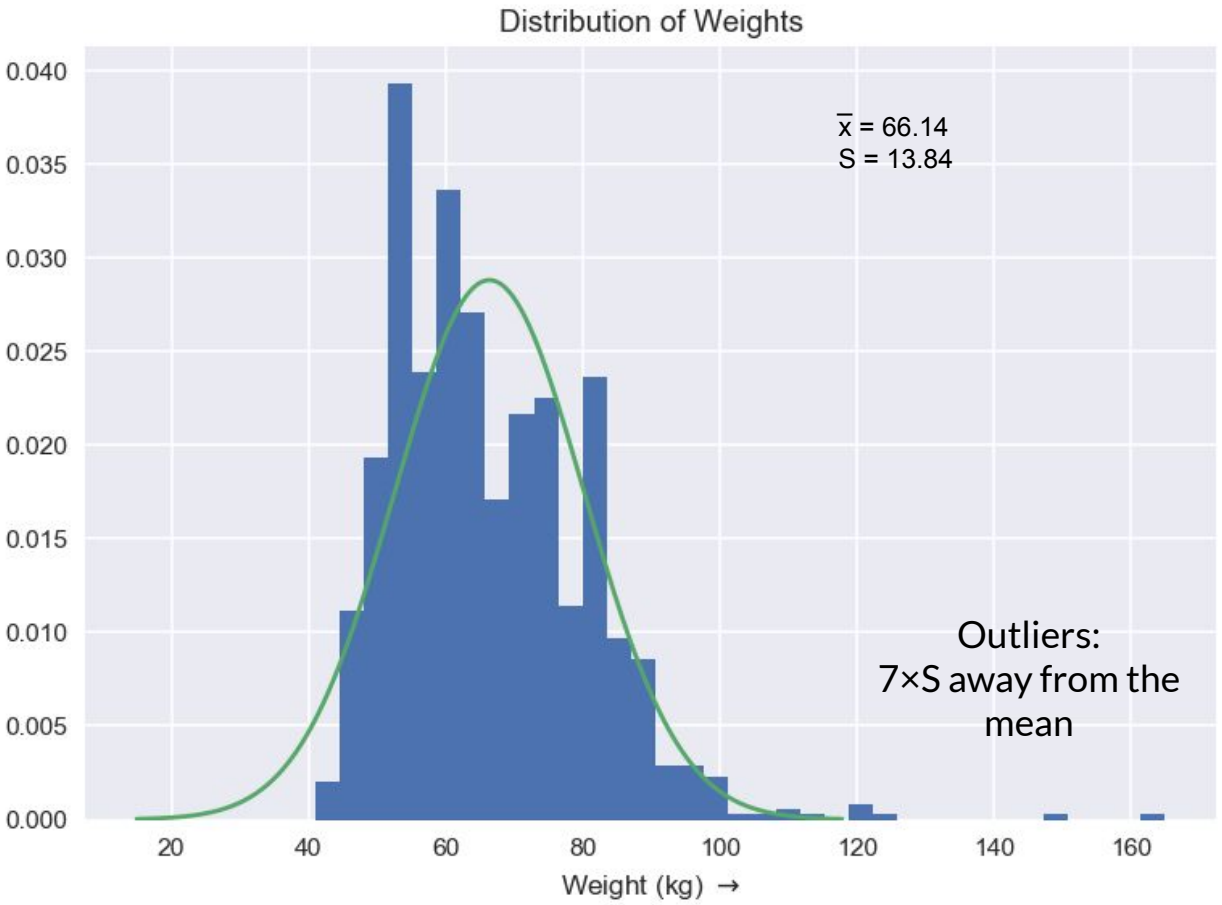
So, are women more afraid of things than men or do men just not like to admit that they're afraid ?

DISCLAIMER:
This is not your average hypothesis testing question.

But wait, how much can we trust this data ?
It was a survey after all, and there are bound to be some random responses.

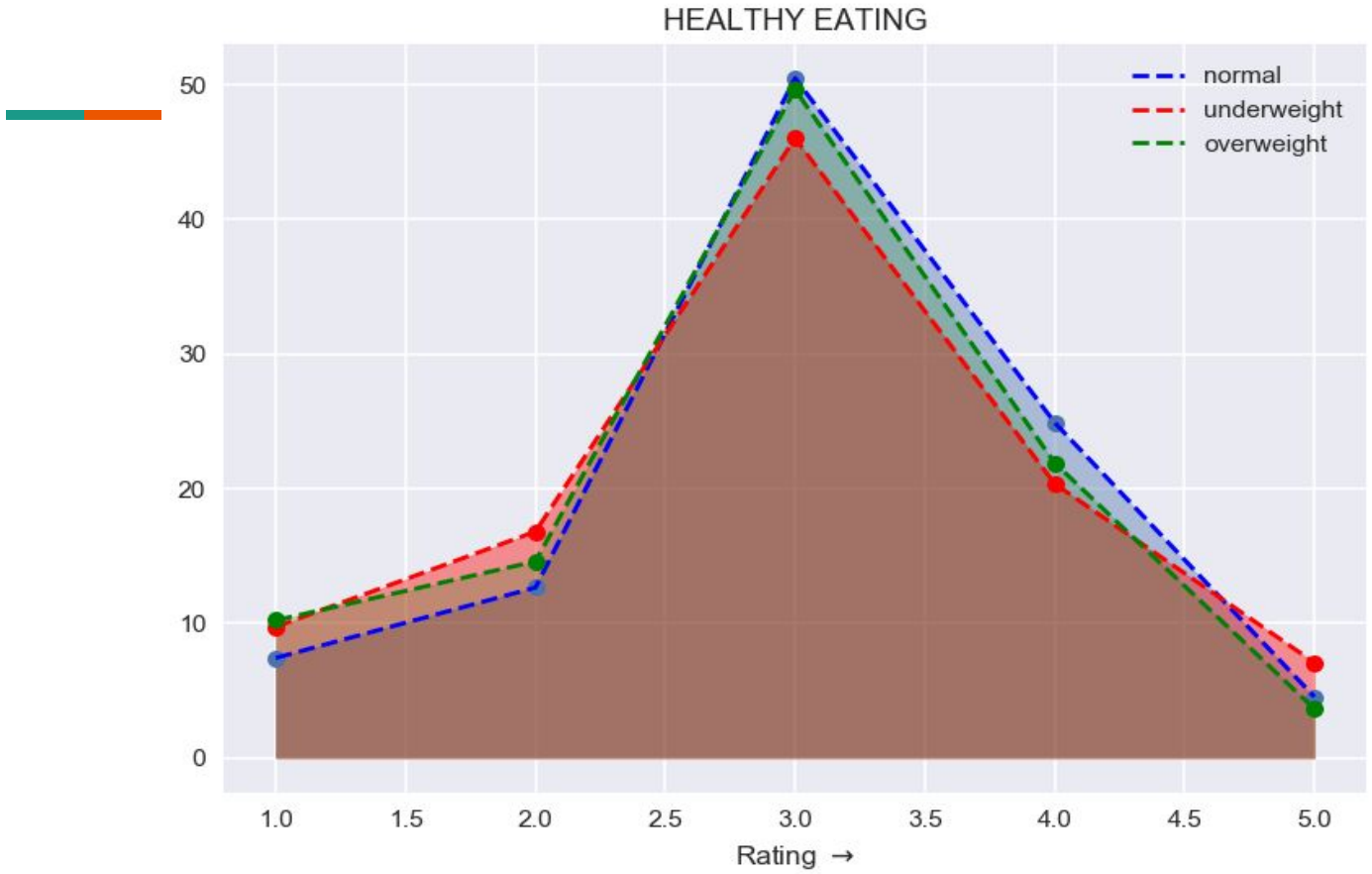
Enter Outlier Prediction

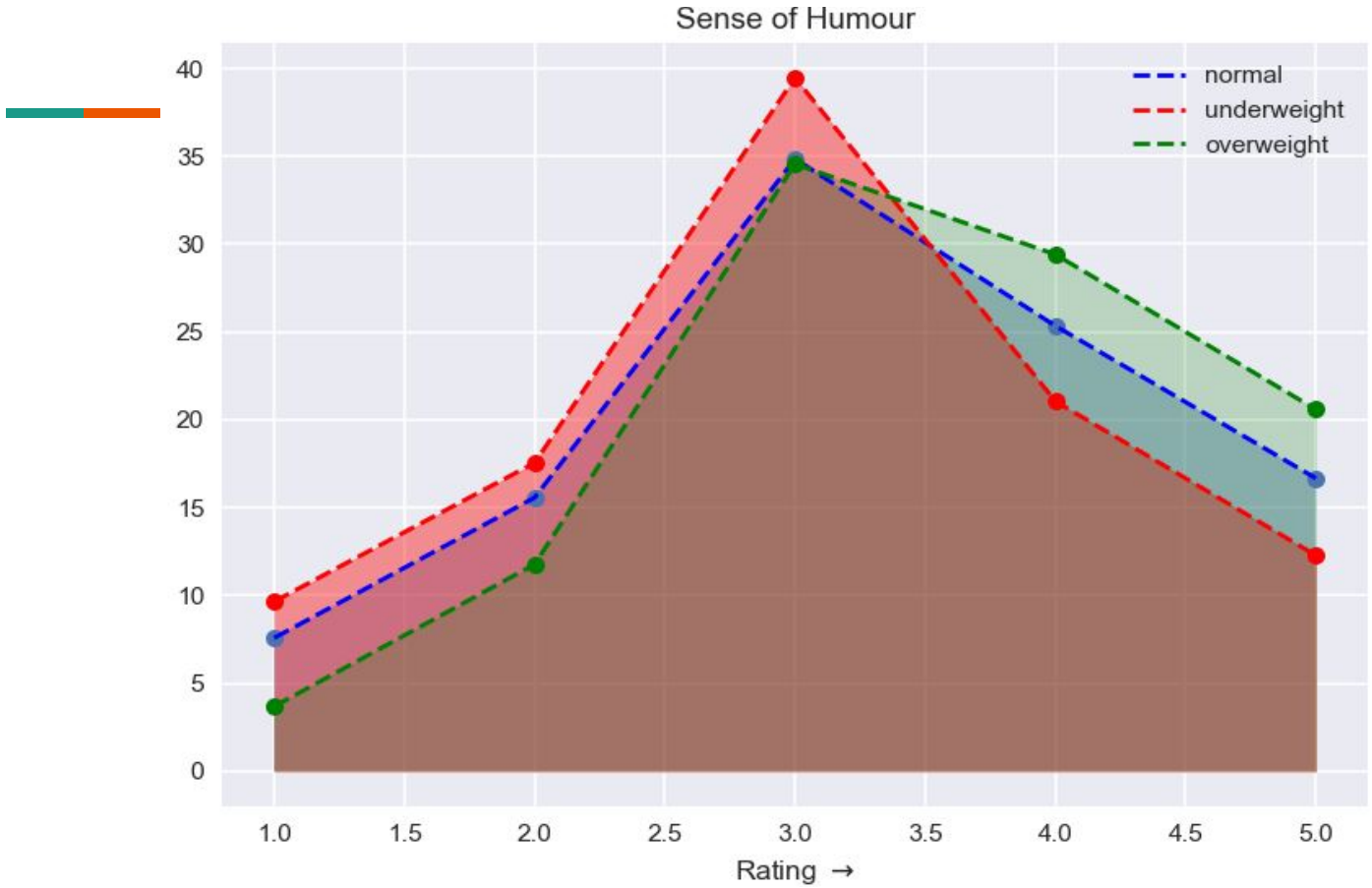

Box Plot - Weight Distribution
Outliers
40
60
80
100
120
140
160
Weight (kg) →



Outliers:
7×S away from the mean

Let’s talk more about weight.

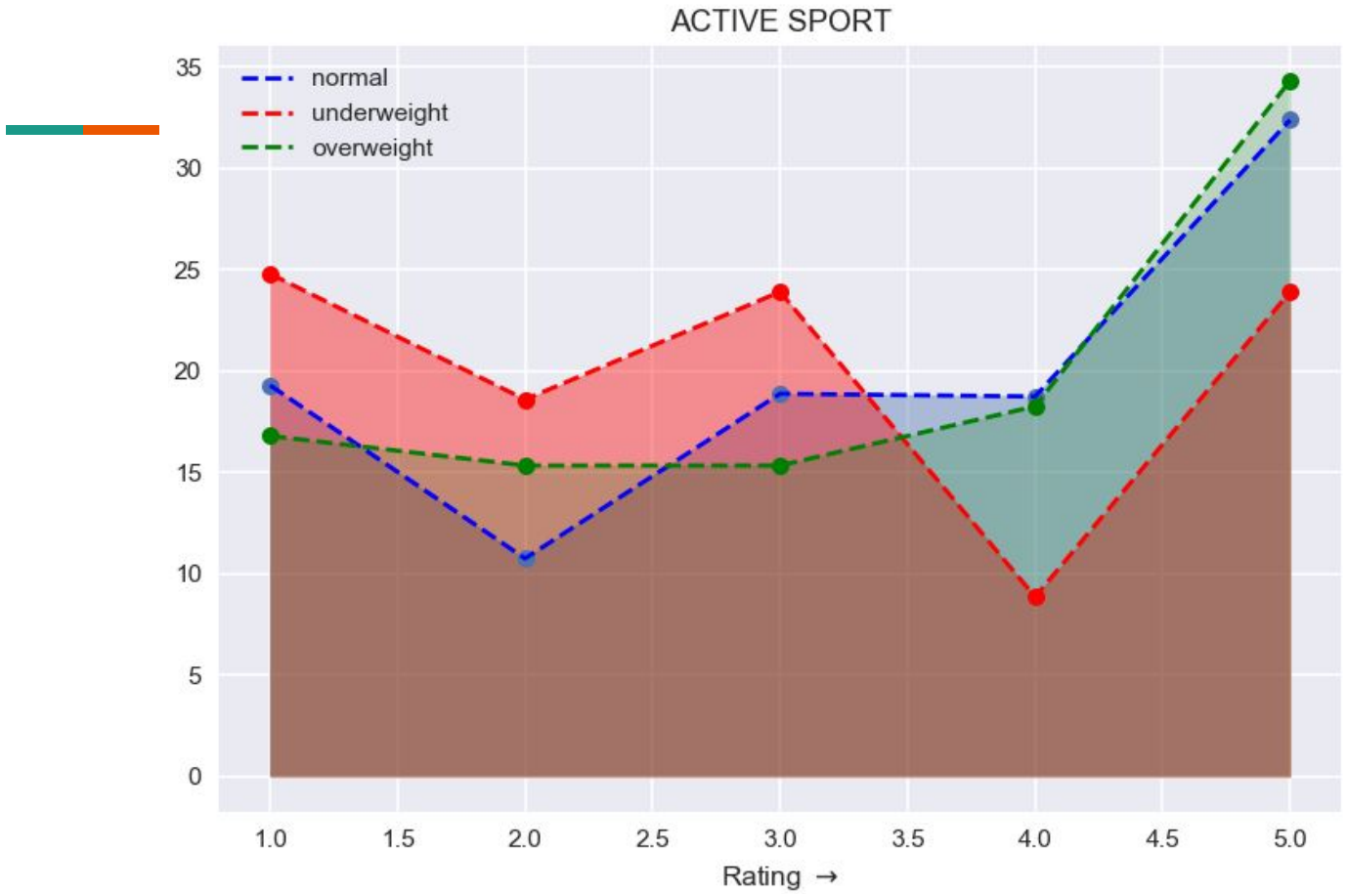

HEALTHY EATING
normal
underweight
overweight
50
40
30
20
10
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →

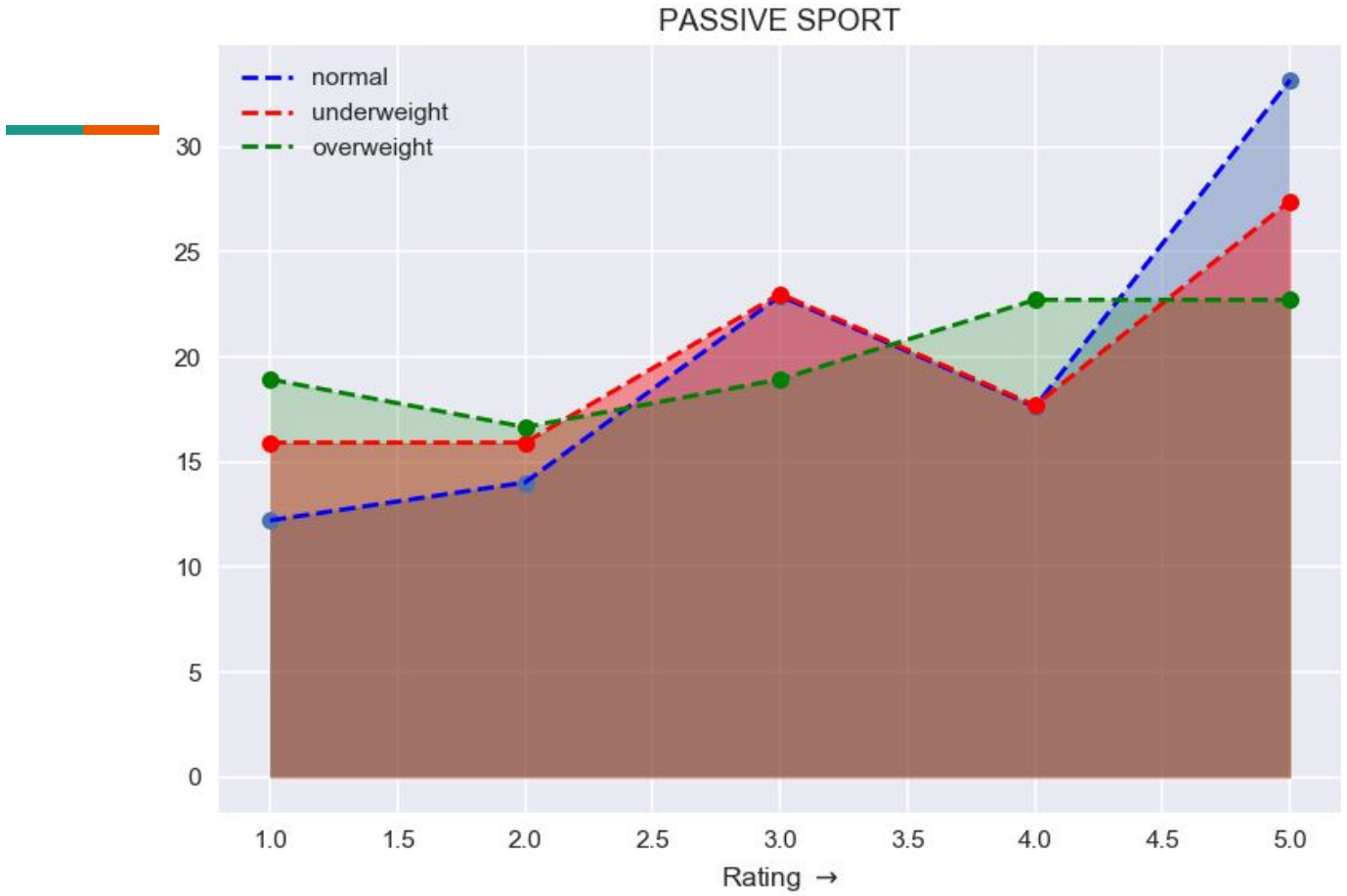

Sense of Humour
normal
underweight
overweight
40
35
30
25
20
15
10
5
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →

Fat people are funny.

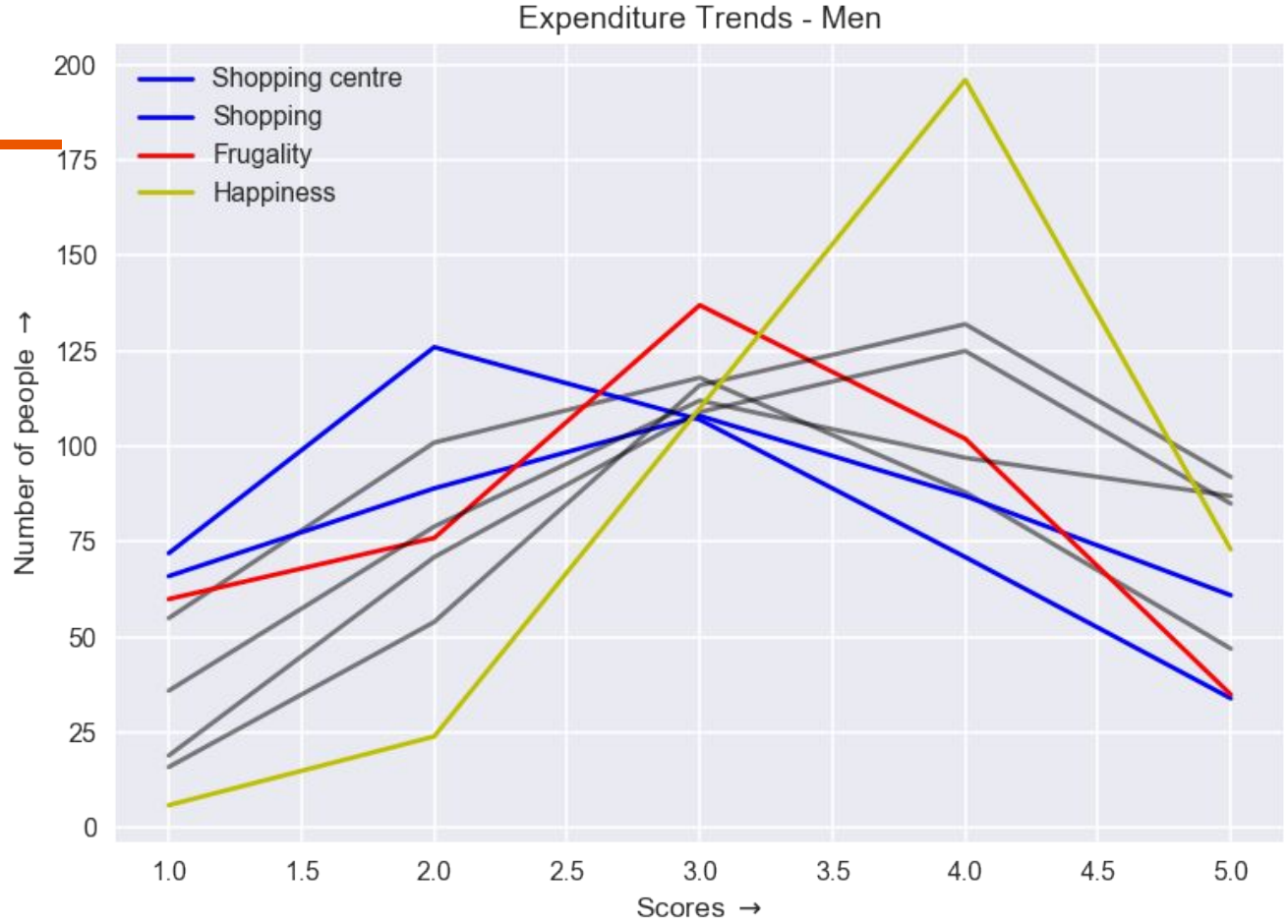
PERIOD!

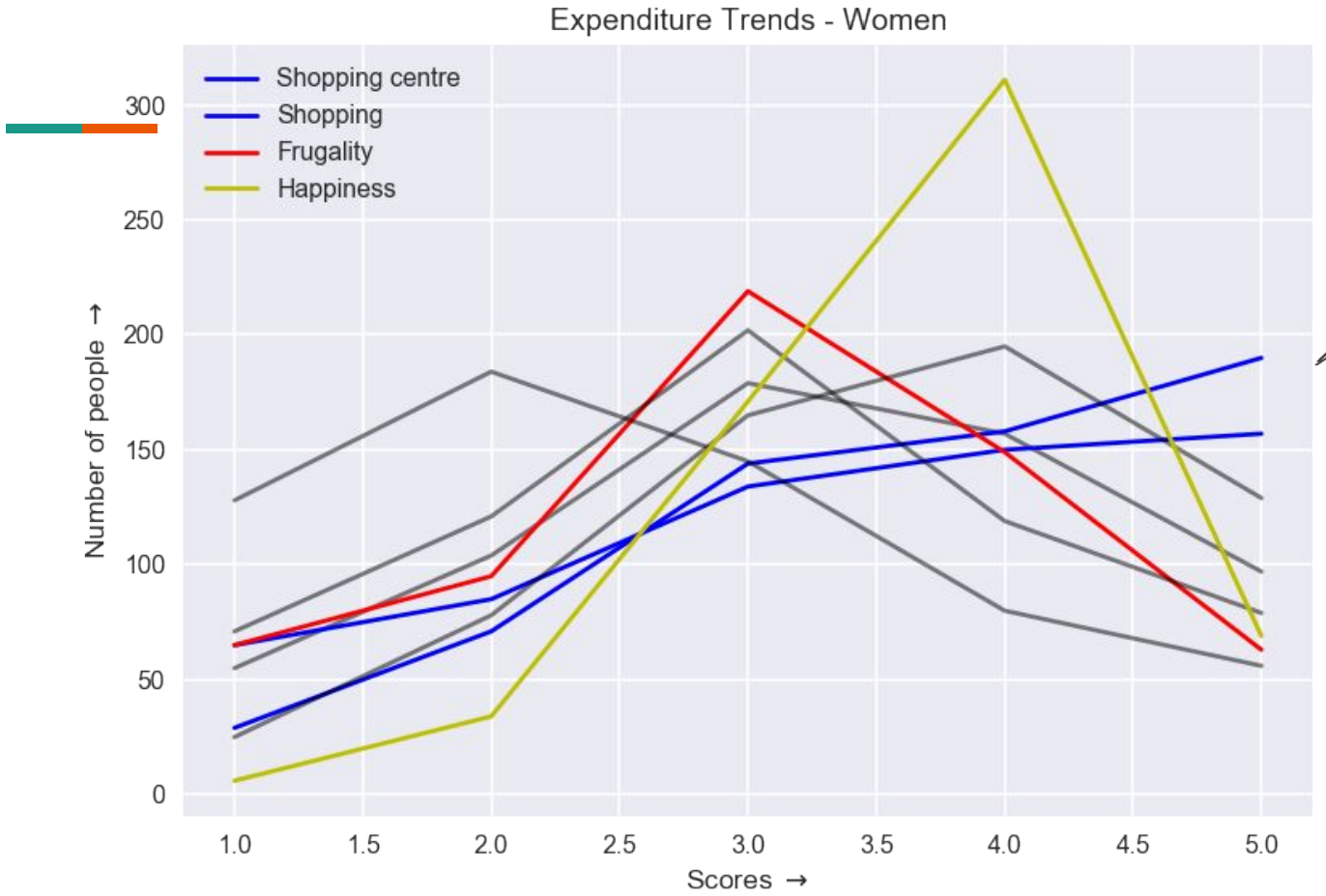
What about sports ?


ACTIVE SPORT
normal
underweight
overweight
35
30
25
20
15
10
5
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →

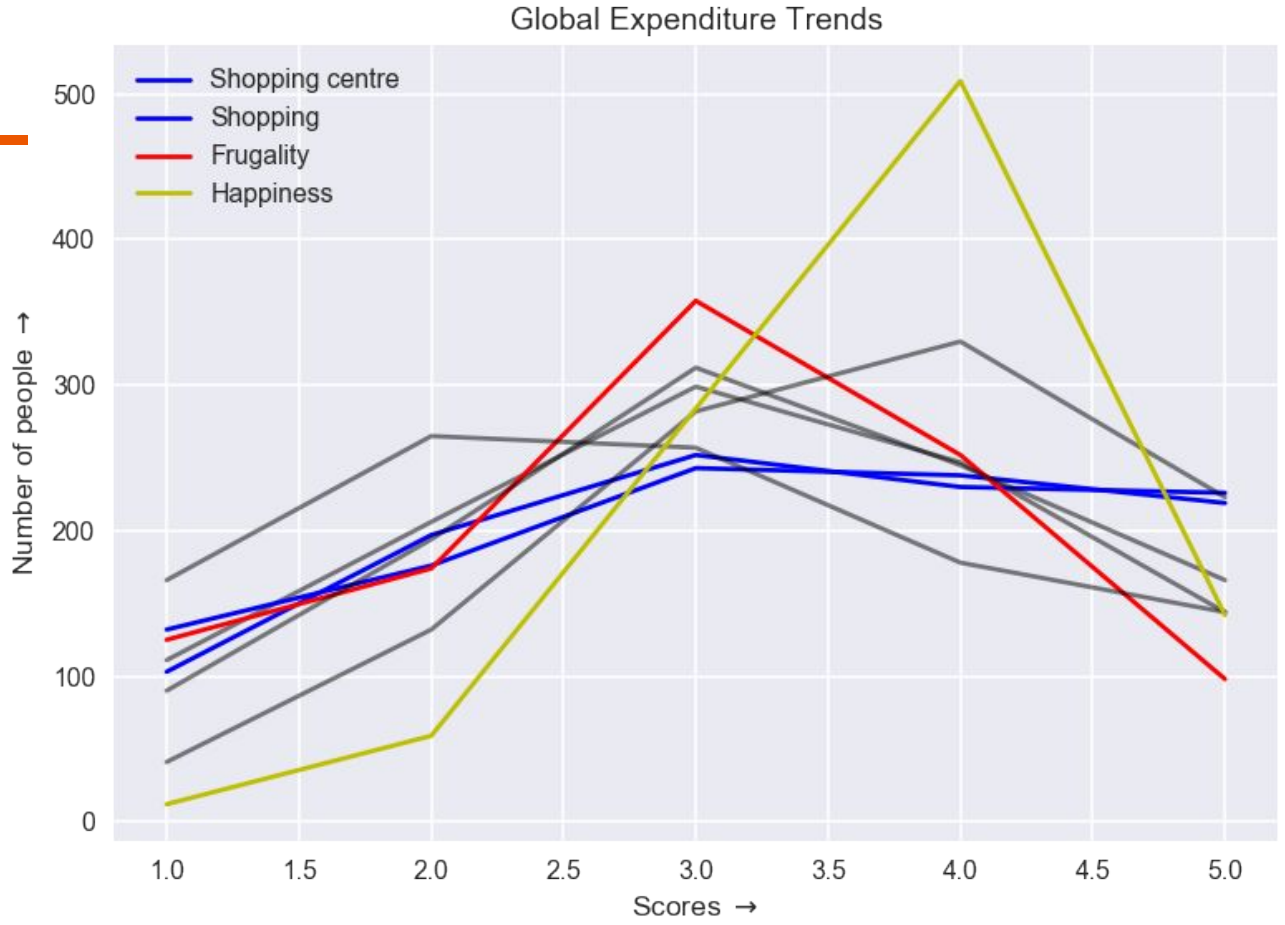

PASSIVE SPORT
normal
underweight
overweight
30
25
20
15
10
5
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Rating →

Let’s look at their spending habits.

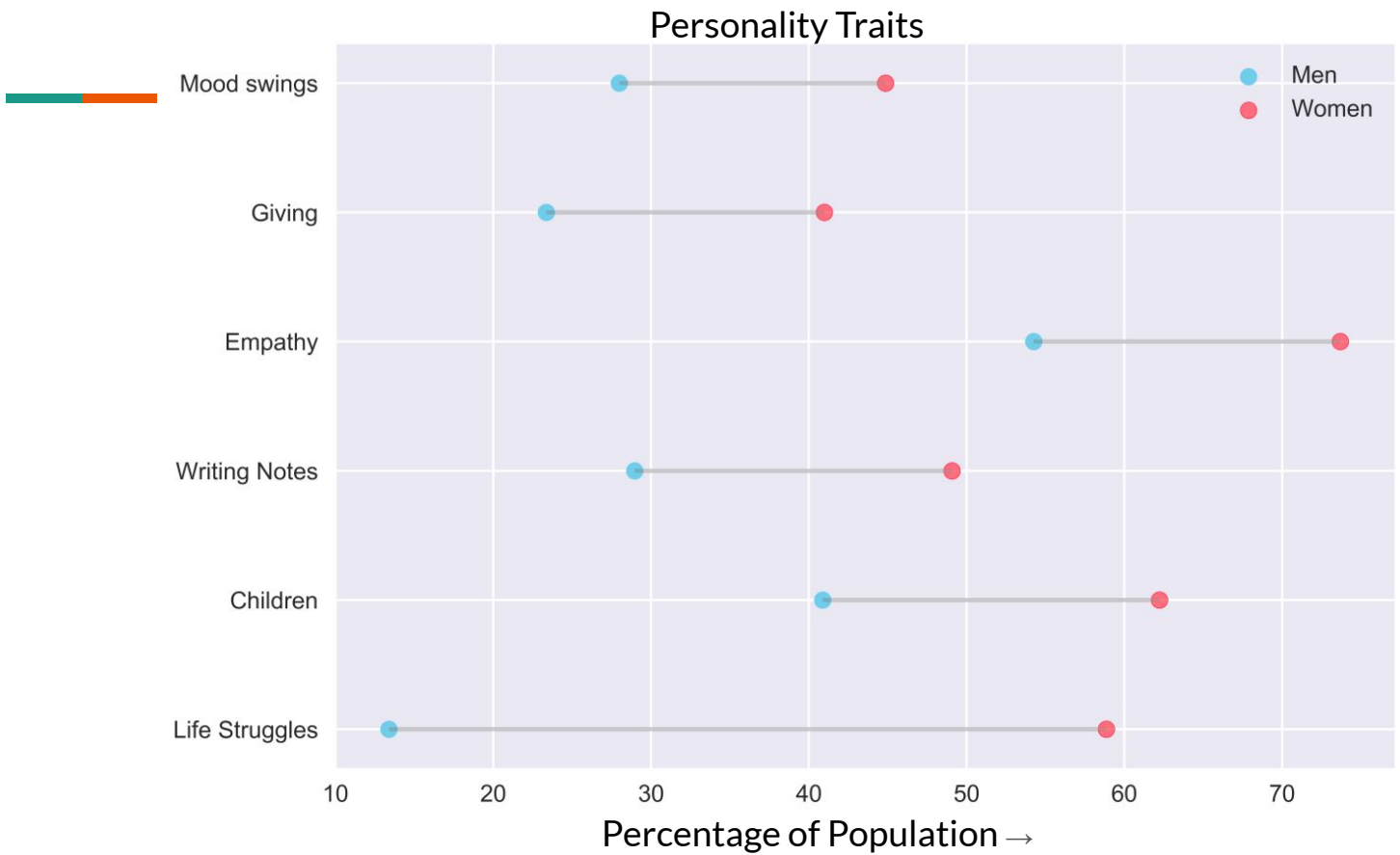

Expenditure Trends - Men
Shopping centre
Shopping
Frugality
Happiness
Number of people →
Scores →
200
175
150
125
100
75
50
25
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

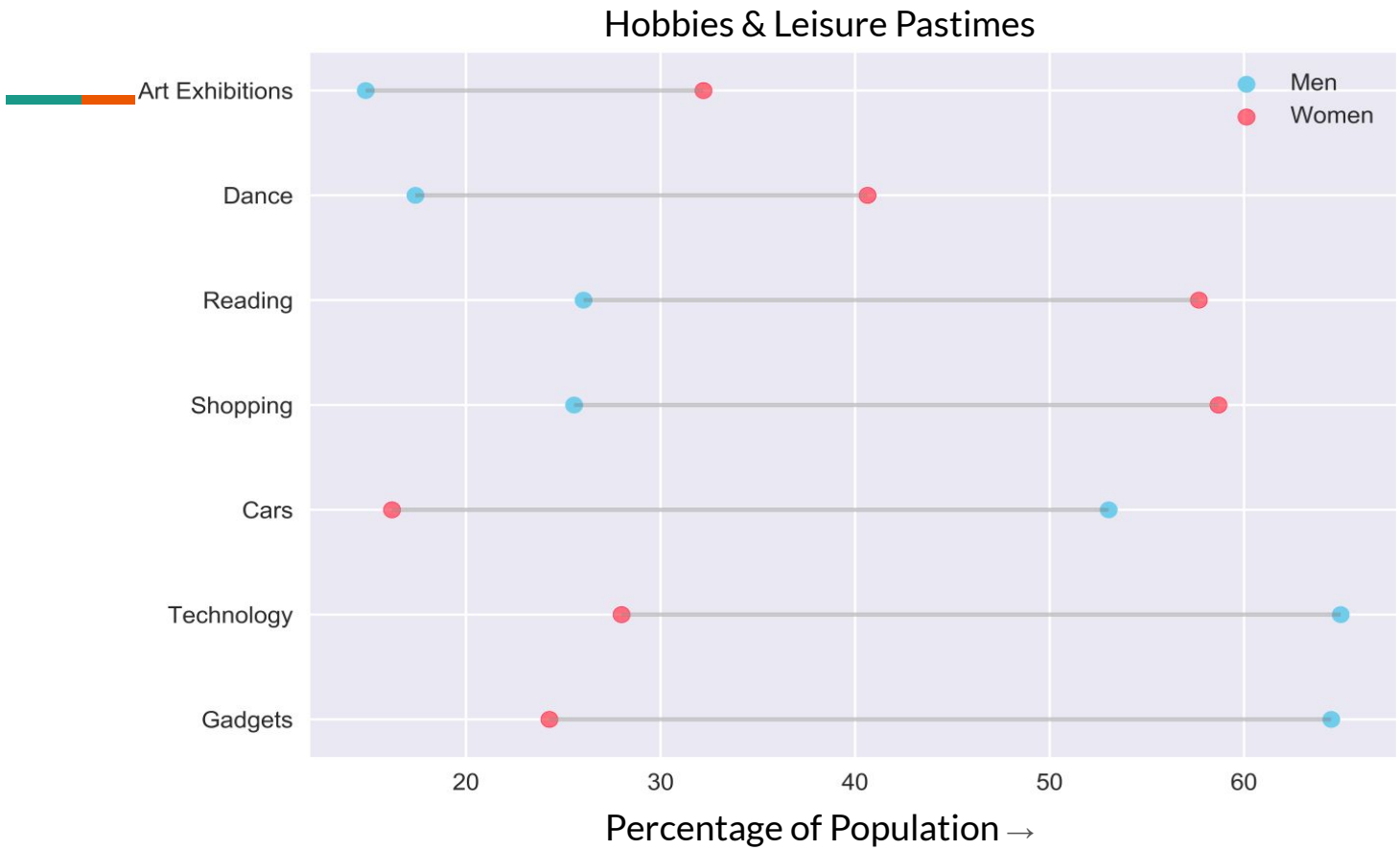

Expenditure Trends - Women
Shopping centre
Shopping
Frugality
Happiness
Number of people →
300
250
200
150
100
50
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Scores →

Window Shopping Anyone?


Global Expenditure Trends
Shopping centre
Shopping
Frugality
Happiness
Number of people →
500
400
300
200
100
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Scores →

People and their personal lives.


Personality Traits
Mood swings
Giving
Empathy
Writing Notes
Children
Life Struggles
Men
Women
10
20
30
40
50
60
70
Percentage of Population →


Hobbies & Leisure Pastimes
Art Exhibitions
Dance
Reading
Shopping
Cars
Technology
Gadgets
Men
Women
20
30
40
50
60
Percentage of Population →

Mukesh coughs, Mukesh dies...!

No Country For Sober Men!

*Or Women....

BAD Habits Die Hard

Thank you!